Exhibit 3

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Page 1
                  UNITED STATES DISTRICT COURT
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                 NORTHERN DISTRICT OF CALIFORNIA
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                     SAN FRANCISCO DIVISION
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     ORACLE AMERICA, INC.,
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                                         )
                   Plaintiff,
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                                         ) Case No.
 7
                                         ) CV 10-03561 WHA
              VS.
 8
     GOOGLE, INC.,
 9
                   Defendant.
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11
12
13
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15
16
        VIDEOTAPED DEPOSITION OF MARK REINHOLD, Ph.D.
                    San Francisco, California
17
                     Tuesday, March 15, 2016
18
19
                            Volume I
      *** HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY ***
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22
     Reported by:
     CARLA SOARES
     CSR No. 5908
23
     Job No. 2265296
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25
     Pages 1 - 136
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Veritext Legal Solutions 973-410-4040

Page 102	Page 104
1 edition."	1 Q in the JLS? What's the reason?
2 Do you see that?	2 A Exhibit 1062 is incorrect.
3 A Yes.	3 Q What is incorrect about 1062?
4 Q Let me just show you a copy of Trial	4 A Exhibit 1062 mistakenly includes the
5 Exhibit 1062.	5 interface Java.util.iterator, and it mistakenly
6 Are you familiar with Exhibit 1062,	6 excludes two enum classes:
7 Dr. Reinhold?	7 Java.lang.annotation.element type, and
8 A Yes, I am.	8 Java.lang.annotation.retention policy.
9 Q You offered this exhibit into evidence, or	9 Q How or when did you figure that out?
10 testified about it at the trial before, correct?	10 A I realized this while preparing
11 A Yes.	11 Exhibit 1509.
12 Q Did you create Exhibit 1062?	12 Q How did you prepare Exhibit 1509?
13 A Yes.	13 A Exhibit 1509 began with a draft produced
14 Q How did you create Exhibit 1062?	14 by Professor Schmidt, which I then reviewed and
15 A I created Exhibit 1062 by doing a	15 cross-checked with the Java language specification,
16 semi-automated analysis of the text of the Java	16 3rd edition.
-	
17 language specification.	17 Q With a did you look at a hard copy of
18 Q What tool did you use to do that	18 the book?
19 automation?	19 A No.
20 A It was a series of UNIX shell scripts that	Q Did you look at an electronic copy of the
21 I wrote.	21 book?
Q What does okay. And 1062, just looking	22 A Yes.
23 at the title up above, it seems, or description, is	23 Q And describe for me what you did in terms
24 "Classes and Interfaces Mentioned in the Java	24 of that cross-referencing.
25 Language Specification, third edition," correct?	25 A So in that cross-referencing, I referred
Page 103	Page 105
Page 103 1 A Yes.	Page 105 1 to some of the intermediate materials that I had
1 A Yes.	1 to some of the intermediate materials that I had
1 A Yes. 2 MR. KAMBER: Let me have marked as	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062,
1 A Yes. 2 MR. KAMBER: Let me have marked as 3 Exhibit 1509 Exhibit A to the Rule 26 disclosures.	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual
 A Yes. MR. KAMBER: Let me have marked as Exhibit 1509 Exhibit A to the Rule 26 disclosures. (Exhibit 1509 was marked for 	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was
1 A Yes. 2 MR. KAMBER: Let me have marked as 3 Exhibit 1509 Exhibit A to the Rule 26 disclosures. 4 (Exhibit 1509 was marked for 5 identification and is attached hereto.) 6 BY MR. KAMBER:	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time
1 A Yes. 2 MR. KAMBER: Let me have marked as 3 Exhibit 1509 Exhibit A to the Rule 26 disclosures. 4 (Exhibit 1509 was marked for 5 identification and is attached hereto.) 6 BY MR. KAMBER: 7 Q Do you recognize Exhibit A?	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort.
1 A Yes. 2 MR. KAMBER: Let me have marked as 3 Exhibit 1509 Exhibit A to the Rule 26 disclosures. 4 (Exhibit 1509 was marked for 5 identification and is attached hereto.) 6 BY MR. KAMBER:	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what
1 A Yes. 2 MR. KAMBER: Let me have marked as 3 Exhibit 1509 Exhibit A to the Rule 26 disclosures. 4 (Exhibit 1509 was marked for 5 identification and is attached hereto.) 6 BY MR. KAMBER: 7 Q Do you recognize Exhibit A? 8 A Yes, I do. 9 MR. RAMSEY: Do you have an extra copy?	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions
1 A Yes. 2 MR. KAMBER: Let me have marked as 3 Exhibit 1509 Exhibit A to the Rule 26 disclosures. 4 (Exhibit 1509 was marked for 5 identification and is attached hereto.) 6 BY MR. KAMBER: 7 Q Do you recognize Exhibit A? 8 A Yes, I do. 9 MR. RAMSEY: Do you have an extra copy? 10 MR. KAMBER: It's right here.	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on
1 A Yes. 2 MR. KAMBER: Let me have marked as 3 Exhibit 1509 Exhibit A to the Rule 26 disclosures. 4 (Exhibit 1509 was marked for 5 identification and is attached hereto.) 6 BY MR. KAMBER: 7 Q Do you recognize Exhibit A? 8 A Yes, I do. 9 MR. RAMSEY: Do you have an extra copy? 10 MR. KAMBER: It's right here. 11 MR. RAMSEY: Oh, I'm sorry.	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a
1 A Yes. 2 MR. KAMBER: Let me have marked as 3 Exhibit 1509 Exhibit A to the Rule 26 disclosures. 4 (Exhibit 1509 was marked for 5 identification and is attached hereto.) 6 BY MR. KAMBER: 7 Q Do you recognize Exhibit A? 8 A Yes, I do. 9 MR. RAMSEY: Do you have an extra copy? 10 MR. KAMBER: It's right here. 11 MR. RAMSEY: Oh, I'm sorry. 12 BY MR. KAMBER:	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a 12 technical constraint imposed by the Java language
1 A Yes. 2 MR. KAMBER: Let me have marked as 3 Exhibit 1509 Exhibit A to the Rule 26 disclosures. 4 (Exhibit 1509 was marked for 5 identification and is attached hereto.) 6 BY MR. KAMBER: 7 Q Do you recognize Exhibit A? 8 A Yes, I do. 9 MR. RAMSEY: Do you have an extra copy? 10 MR. KAMBER: It's right here. 11 MR. RAMSEY: Oh, I'm sorry. 12 BY MR. KAMBER: 13 Q What is it?	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a 12 technical constraint imposed by the Java language 13 specification?
1 A Yes. 2 MR. KAMBER: Let me have marked as 3 Exhibit 1509 Exhibit A to the Rule 26 disclosures. 4 (Exhibit 1509 was marked for 5 identification and is attached hereto.) 6 BY MR. KAMBER: 7 Q Do you recognize Exhibit A? 8 A Yes, I do. 9 MR. RAMSEY: Do you have an extra copy? 10 MR. KAMBER: It's right here. 11 MR. RAMSEY: Oh, I'm sorry. 12 BY MR. KAMBER: 13 Q What is it? 14 A Exhibit A is a more is the result of a	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a 12 technical constraint imposed by the Java language 13 specification? 14 A At a high level, my conclusion is that the
1 A Yes. 2 MR. KAMBER: Let me have marked as 3 Exhibit 1509 Exhibit A to the Rule 26 disclosures. 4 (Exhibit 1509 was marked for 5 identification and is attached hereto.) 6 BY MR. KAMBER: 7 Q Do you recognize Exhibit A? 8 A Yes, I do. 9 MR. RAMSEY: Do you have an extra copy? 10 MR. KAMBER: It's right here. 11 MR. RAMSEY: Oh, I'm sorry. 12 BY MR. KAMBER: 13 Q What is it? 14 A Exhibit A is a more is the result of a 15 more detailed analysis of the items mentioned in	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a 12 technical constraint imposed by the Java language 13 specification? 14 A At a high level, my conclusion is that the 15 Java language specification places very few
MR. KAMBER: Let me have marked as Restribit 1509 Exhibit A to the Rule 26 disclosures. (Exhibit 1509 was marked for identification and is attached hereto.) BY MR. KAMBER: Q Do you recognize Exhibit A? A Yes, I do. MR. RAMSEY: Do you have an extra copy? MR. KAMBER: It's right here. MR. RAMSEY: Oh, I'm sorry. BY MR. KAMBER: Q What is it? A Exhibit A is a more is the result of a more detailed analysis of the items mentioned in Exhibit 1062.	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a 12 technical constraint imposed by the Java language 13 specification? 14 A At a high level, my conclusion is that the 15 Java language specification places very few 16 technical constraints on any of these classes.
MR. KAMBER: Let me have marked as Exhibit 1509 Exhibit A to the Rule 26 disclosures. (Exhibit 1509 was marked for identification and is attached hereto.) BY MR. KAMBER: Q Do you recognize Exhibit A? A Yes, I do. MR. RAMSEY: Do you have an extra copy? MR. KAMBER: It's right here. MR. RAMSEY: Oh, I'm sorry. BY MR. KAMBER: Q What is it? A Exhibit A is a more is the result of a more detailed analysis of the items mentioned in Exhibit 1062. Now, this may be a technicality, but	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a 12 technical constraint imposed by the Java language 13 specification? 14 A At a high level, my conclusion is that the 15 Java language specification places very few 16 technical constraints on any of these classes. 17 In most cases, the language specification
MR. KAMBER: Let me have marked as Exhibit 1509 Exhibit A to the Rule 26 disclosures. (Exhibit 1509 was marked for identification and is attached hereto.) BY MR. KAMBER: Q Do you recognize Exhibit A? A Yes, I do. MR. RAMSEY: Do you have an extra copy? MR. KAMBER: It's right here. MR. RAMSEY: Oh, I'm sorry. BY MR. KAMBER: Q What is it? A Exhibit A is a more is the result of a more detailed analysis of the items mentioned in Exhibit 1062. Q Now, this may be a technicality, but Recompleted as a service of the items.	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a 12 technical constraint imposed by the Java language 13 specification? 14 A At a high level, my conclusion is that the 15 Java language specification places very few 16 technical constraints on any of these classes. 17 In most cases, the language specification 18 merely indicates that a class of a given name and a
MR. KAMBER: Let me have marked as Bexhibit 1509 Exhibit A to the Rule 26 disclosures. (Exhibit 1509 was marked for identification and is attached hereto.) BY MR. KAMBER: Q Do you recognize Exhibit A? A Yes, I do. MR. RAMSEY: Do you have an extra copy? MR. KAMBER: It's right here. MR. RAMSEY: Oh, I'm sorry. BY MR. KAMBER: Q What is it? A Exhibit A is a more is the result of a more detailed analysis of the items mentioned in Exhibit 1062. Q Now, this may be a technicality, but perhaps you can explain it to me. I counted 62 lines, at least, in this	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a 12 technical constraint imposed by the Java language 13 specification? 14 A At a high level, my conclusion is that the 15 Java language specification places very few 16 technical constraints on any of these classes. 17 In most cases, the language specification 18 merely indicates that a class of a given name and a 19 given package must exist. In some cases, it says
MR. KAMBER: Let me have marked as Restribit 1509 Exhibit A to the Rule 26 disclosures. (Exhibit 1509 was marked for identification and is attached hereto.) BY MR. KAMBER: Q Do you recognize Exhibit A? A Yes, I do. MR. RAMSEY: Do you have an extra copy? MR. KAMBER: It's right here. MR. RAMSEY: Oh, I'm sorry. BY MR. KAMBER: Q What is it? A Exhibit A is a more is the result of a more detailed analysis of the items mentioned in Exhibit 1062. Q Now, this may be a technicality, but perhaps you can explain it to me. I counted 62 lines, at least, in this in Exhibit A.	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a 12 technical constraint imposed by the Java language 13 specification? 14 A At a high level, my conclusion is that the 15 Java language specification places very few 16 technical constraints on any of these classes. 17 In most cases, the language specification 18 merely indicates that a class of a given name and a 19 given package must exist. In some cases, it says 20 that a class of a particular name must contain a
MR. KAMBER: Let me have marked as Exhibit 1509 Exhibit A to the Rule 26 disclosures. (Exhibit 1509 was marked for identification and is attached hereto.) BY MR. KAMBER: Q Do you recognize Exhibit A? A Yes, I do. MR. RAMSEY: Do you have an extra copy? MR. KAMBER: It's right here. MR. RAMSEY: Oh, I'm sorry. BY MR. KAMBER: Q What is it? A Exhibit A is a more is the result of a more detailed analysis of the items mentioned in Exhibit 1062. Q Now, this may be a technicality, but perhaps you can explain it to me. I counted 62 lines, at least, in this in Exhibit A. A Yes.	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a 12 technical constraint imposed by the Java language 13 specification? 14 A At a high level, my conclusion is that the 15 Java language specification places very few 16 technical constraints on any of these classes. 17 In most cases, the language specification 18 merely indicates that a class of a given name and a 19 given package must exist. In some cases, it says 20 that a class of a particular name must contain a 21 method or two or have a certain annotation.
MR. KAMBER: Let me have marked as Exhibit 1509 Exhibit A to the Rule 26 disclosures. (Exhibit 1509 was marked for identification and is attached hereto.) BY MR. KAMBER: Q Do you recognize Exhibit A? A Yes, I do. MR. RAMSEY: Do you have an extra copy? MR. KAMBER: It's right here. MR. RAMSEY: Oh, I'm sorry. BY MR. KAMBER: Q What is it? A Exhibit A is a more is the result of a more detailed analysis of the items mentioned in Exhibit 1062. Very Now, this may be a technicality, but perhaps you can explain it to me. Very New Yes. Very MR. Kamper Very MR.	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a 12 technical constraint imposed by the Java language 13 specification? 14 A At a high level, my conclusion is that the 15 Java language specification places very few 16 technical constraints on any of these classes. 17 In most cases, the language specification 18 merely indicates that a class of a given name and a 19 given package must exist. In some cases, it says 20 that a class of a particular name must contain a 21 method or two or have a certain annotation. 22 The one exceptional case is the class
MR. KAMBER: Let me have marked as Exhibit 1509 Exhibit A to the Rule 26 disclosures. (Exhibit 1509 was marked for identification and is attached hereto.) BY MR. KAMBER: Q Do you recognize Exhibit A? A Yes, I do. MR. RAMSEY: Do you have an extra copy? MR. KAMBER: It's right here. MR. RAMSEY: Oh, I'm sorry. BY MR. KAMBER: Q What is it? A Exhibit A is a more is the result of a more detailed analysis of the items mentioned in Exhibit 1062. Q Now, this may be a technicality, but perhaps you can explain it to me. I counted 62 lines, at least, in this in Exhibit A. Yes. Q Is there any do you know why this might list 62 have 62 lines whereas Exhibit 1062 refers	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a 12 technical constraint imposed by the Java language 13 specification? 14 A At a high level, my conclusion is that the 15 Java language specification places very few 16 technical constraints on any of these classes. 17 In most cases, the language specification 18 merely indicates that a class of a given name and a 19 given package must exist. In some cases, it says 20 that a class of a particular name must contain a 21 method or two or have a certain annotation. 22 The one exceptional case is the class 23 Java.lang.object where the Java language
MR. KAMBER: Let me have marked as Exhibit 1509 Exhibit A to the Rule 26 disclosures. (Exhibit 1509 was marked for identification and is attached hereto.) BY MR. KAMBER: Q Do you recognize Exhibit A? A Yes, I do. MR. RAMSEY: Do you have an extra copy? MR. KAMBER: It's right here. MR. RAMSEY: Oh, I'm sorry. BY MR. KAMBER: Q What is it? A Exhibit A is a more is the result of a more detailed analysis of the items mentioned in Exhibit 1062. Very Now, this may be a technicality, but perhaps you can explain it to me. Very New Yes. Very MR. Kamper Very MR.	1 to some of the intermediate materials that I had 2 saved from the process of preparing Exhibit 1062, 3 and I also cross-checked all of the actual textual 4 mentions in the Java language specification, taking 5 more time than I did for 1062 because that was 6 during the trial, and it was a very limited time 7 effort. 8 Q So turning back to the description of what 9 you might testify about, what are your opinions 10 regarding the 62 classes and interfaces listed on 11 Exhibit 1509 with respect to being subject to a 12 technical constraint imposed by the Java language 13 specification? 14 A At a high level, my conclusion is that the 15 Java language specification places very few 16 technical constraints on any of these classes. 17 In most cases, the language specification 18 merely indicates that a class of a given name and a 19 given package must exist. In some cases, it says 20 that a class of a particular name must contain a 21 method or two or have a certain annotation. 22 The one exceptional case is the class

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1 a list of the methods and the	declaring code for	1 1	the Java language specification?	
2 those methods, and asserts th	at these methods must	2	A I'm sorry. Could you repeat the question?	
3 exist in that class. That does	not, of course,	3	Q Sure.	
4 limit the presence of other me		4	What, if any, opinions do you have that	
5 The other slight except	I	5	declaring code and SSO not included on the table	
6 enum classes at the very bottom	I		that is Exhibit 1509 are not subject to a technical	
7 retention policy, the Java lan			constraint imposed by the Java language	
8 constrains these classes to co			specification?	
9 elements of the given names.		9	A Any SSO expressed in the declaring code of	
10 Q So are you saying, or	is it your opinion 1	10 1	the 37 packages that is not also expressed in the	
11 that to the extent that the Java			fragments of declaring code in this table are not	
12 specification has some technic	-		mandated by the Java language specification.	
13 imposes some technical cons		13	Q Whereas those whereas the SSO expressed	
14 particular classes, that the tec	chnical constraint is 1	14 i	in the declaring code listed are these fragments	
15 actually it's a limited techn			that are listed in Exhibit 1509, it's your opinion	
16 that is, it's a narrow technical			that those are mandated by the Java language	
17 A Yes.	1	17 :	specification, correct?	
18 Q Just as a technical ma	tter, why is it a	18	MR. RAMSEY: Objection. Form.	
19 narrow constraint?	1	19	THE WITNESS: Yes.	
20 A The Java language sp	ecification strives to 2	20	BY MR. KAMBER:	
21 be a specification of the lang	uage. It does not 2	21	Q Turning back to Exhibit 1508,	
22 strive to specify any of the Ja	ava APIs beyond the 2	22	Dr. Reinhold, it says that you may starting	
23 extent necessary to specify th	ne language.	23 (on line 7, that you "may also present testimony	
24 Q Is that opinion differe	ent than the opinion 2	24 1	regarding the advantages of Java as compared to	
25 that you expressed at the ir	the first phase of 2	25 (other programming environments or platforms."	
	Page 107		Page 109	
1 this case at the trial?		1	Do you see that?	
2 A I don't believe so.		2	A Yes.	
3 Q With respect to Exhib	oit 1509, what, if	3	Q What, if any, opinions do you intend to	
4 anything, does it show about	the SSO?	4 (offer on that on that topic?	
5 A It shows a very small	very small	5	A Again, I'm not sure exactly what I will	
6 portion of the overall SSO.		6 8	say at trial, but sitting here today, I think that	
7 Q How does it show the	SSO?	7.	Java has many advantages relative to other common or	
8 A So the SSO is express	-	8 ι	uncommon programming environments.	
9 of declaring code that you ca		9	Q Can you please give me some examples?	
10 is partly expressed in the frag	_	10	A Amongst those examples are, it is a	
11 code that you can find in the	_		high-level language that insulates developers from	
12 the table.		12 1	lots of low-level details that you find necessary to	
13 Q So, for example, for the		13 (deal with in other languages, such as C or C++.	
14 Java.lang.abstract method err	· -	14	It includes features built in such as	
15 the SSO being where is the		-	garbage collection and threading. It includes, as	
16 reflected in the declaration lis			we have been discussing, a rich set of APIs for many	
17 right-hand column?			different capabilities.	
18 A In the fragment of dec	-	18	And over the last 20 years, a very rich	
19 right-hand column, the aspec			ecosystem has grown up around it such that if a	
20 expressed are the existence o			particular Java platform you might be using doesn't	
21 Java.lang, the presence of a c	elass called abstract 2	21 (contain something, it's very likely you can find an	

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24

23 functionality.

22 open source library that does provide that

25 developers, which is a big strength of the

There are also millions of Java

22 method error within that package, and no more.

Q What, if any, opinion do you have that

24 declaring code and SSO not listed in Exhibit 1509

25 are not subject to a technical constraint imposed by

35 (Pages 134 - 136)